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CLAIMS:

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- 1- An apparatus for processing data on a data carrier which rotates about an axis and on which tracks are provided for containing said data, said track spiraling around a center, said apparatus comprising an angle measuring device from which said angle information is derived, the angle measuring device being constituted by an eccentricity measurer sensitive to the non-coincidence of said axis and center.
- 2- An apparatus as claimed in claim 1, wherein a PID operator is provided for the tracking of a beam on the track, said operator comprising notably an I operator, characterized in that said eccentricity measurer takes account of the signal at the output of the I operator.
- 3- An apparatus as claimed in claim 2, comprising a peak/bottom detector at the output of the I operator.
- 4- An apparatus as claimed in claim 2 or 3, comprising a frequency multiplier for providing pulses, which multiplier is linked to the output of an I operator and from which multiplier angular position information is derived.
 - 5- An apparatus as claimed in claims 1 to 4, characterized in that the PID operator acts on a radial tracking signal.
 - 6- An apparatus as claimed in claims 1 to 4, characterized in that the PID operator acts on the focusing signal.
 - 7- A method of measuring an indication of the angle of a data carrier which rotates about an axis and on which a track is provided for containing said data, said track spiraling around a center, which method utilizes a servo mechanism for positioning a beam on the track, the method comprising the steps of:
 - analyzing the error signal of said servomechanism,

- detecting the eccentricity of the data carrier from this analysis,
- deriving angular position information from the eccentricity defined by the non coincidence between the axis and the center.

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- 8- A method of measuring as claimed in claim 7, comprising the steps of:
- using a filter comprising notably an I operator,
- processing the output signal of said I operator for providing said indication of the angular position information.

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- 9- A method of measuring an indication of the angle of a data carrier which rotates about an axis and on which a track is provided for containing said data, said track spiraling around a center, which method utilizes a servo mechanism for focusing a beam on the track, the method comprising the steps of:
 - analyzing the error signal of said servomechanism,
 - detecting the repetitive disturbances of the focus signal,
 - deriving angular position information from these disturbances.